

PG3576USw
S/N 09/806,892

Amendment to the claims:

Please cancel claims 1-31 and claims 33-37, being drawn to non-elected inventions.

Please amend claim 32 as shown below.

1.-31. (Canceled)

32. (Currently amended) A differential release method of assaying a chemical construct ~~library~~ for biological activity, the method comprising:

(a)(i) subjecting a construct comprising a solid support Q having linked thereto groups Y^1R and Y^2R ~~as defined in claim 1~~ to cleavage conditions effective to release substrate R from the group Y^1R ;

wherein the groups Y^1 and Y^2 are connecting groups each having a first cleavage site, at least one of Y^1 and Y^2 having a second cleavage site located between the first cleavage site and group R, the first cleavage site being orthogonally and selectively cleavable with respect to the second cleavage site, and, when both groups Y^1 and Y^2 contain a second cleavage site, the second cleavage site in Y^1 being selectively and orthogonally cleavable with respect to the second cleavage site in Y^2 ; the second cleavage site being cleavable to release the substrate; and the first cleavage site being selectively cleavable to release a fragment Fr comprising the substrate R and at least a portion of the connecting group Y; and wherein:

(i) the chemical fragment Fr contains a sensitising group G which sensitises the chemical fragment Fr to instrumental, e.g. mass spectroscopic analysis and/or:

(ii) the fragment Fr contains a means for imparting a characteristic signature to the mass spectrum of the fragment

(b)(ii) testing the substrate R released from the group Y^1R in a biological assay;

(c)(iii) subsequently subjecting the construct to cleavage conditions effective to release substrate R from the group Y^2R ; and

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(d)(~~4~~) testing the substrate R released from the group Y²R in a biological assay.

33.-37. (Canceled)

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